(i) wherein the coding polynucleotide is operably linked to a promoter in vitro for expressing the polynucleotide encoding the antibody polypeptide in the mammalian non-plasmocyte cell in vivo; and

(ii) wherein the coding polynucleotide is operably linked to a polynucleotide element coding for a signal peptide required for the secretion of the antibody polypeptide from the mammalian non-plasmocyte cell into the blood circulation of a host mammal after the implantation of the mammalian non-plasmocyte cell into the host mammal.

4. ~~(Twice Amended)~~ The cell of claim 21, wherein the nucleic acid is inserted ~~in a vector.~~

20. (Twice Amended) A method of making a mammalian non-plasmocyte cell comprising a nucleic acid containing a polynucleotide coding for a natural antibody polypeptide, comprising the steps of:

(1) transfering upon transfection at least one nucleic acid comprising a polynucleotide coding for said natural antibody polypeptide,

(i) wherein the coding polynucleotide peptide is operably linked to a promoter for expressing the polynucleotide encoding the antibody polypeptide in the mammalian non-plasmocyte cell; and

(ii) wherein the coding polynucleotide is operably linked to a polynucleotide element coding for a signal peptide required for the secretion of the antibody polypeptide from the mammalian non-plasmocyte cell into the blood circulation of a host mammal after the implantation of the mammalian non-plasmocyte cell.

21. (Amended) A mammalian non-plasmocyte cell genetically modified with a nucleic acid, wherein the nucleic acid comprises a nucleotide sequence coding for an antibody molecule:

(a) wherein the nucleotide sequence coding for the antibody molecule is operably linked to a promoter for expressing said nucleotide sequence encoding the antibody molecule in the mammalian non-plasmocyte cell, and

(b) wherein the nucleic acid comprises a sequence for termination of the transcription, situated downstream from the sequence coding for an antibody molecule and permitting the secretion of said antibody molecule from the mammalian non-plasmocyte cell into the blood circulation of a host mammal after the implantation of the mammalian non-plasmocyte cell into the host mammal.

31. (Amended) A method for delivering an antibody to the blood system of a host mammal, comprising: implanting a cell into a mammal,

(a) wherein the implanted cell is a mammalian non-plasmocyte cell genetically modified with a nucleic acid, wherein the nucleic acid comprises a nucleotide sequence coding for an antibody molecule;

(b) wherein the nucleotide sequence coding for the antibody molecule is operably linked to a promoter for expressing said nucleotide sequence coding the antibody molecule in the mammalian non-plasmocyte cell; and

(c) wherein the nucleic acid comprises a sequence for termination of the transcription, situated downstream from the sequence coding for an antibody molecule and permitting the secretion of said antibody molecule from the mammalian non-plasmocyte cell into the blood circulation of a host mammal after the implantation of the mammalian non-plasmocyte cell into the host mammal.